

SIBIR Refrigerators Installation Instructions

E 1521/3W
E 2321/3W

E 1521/2WE 1521/FG
E 2321/2WE 2321/FG

This refrigerator has a design certified by the American and Canadian Gas Associations for installation in recreational vehicles or mobile homes. To meet this certification correct installation is essential and must be as follows.

1. General

- a) Gas installations in the USA must conform with the following as applicable:
 1. Local codes or, in the absence of local codes,
 2. The National Fuel Gas Code ANSI Z223.1-1980
 3. Federal Standard for Mobile Home Construction and Safety, Title 24, HUD (Part 280) or, when this standard is not applicable:
Standard for Mobile Homes ANSI/ NFPA No 501 B-1977.
 5. Standard for Recreational Vehicles ANSI/NFPA No 501C-1977
- b) Gas installations in Canada must conform with the following Canadian Standards:
 - (1) B149.2- Installation Code for Propane Burning Appliances
 - (2) CGA 10.1/CSA Z240.4-Gas Equipped Recreational Vehicles and Mobile Housing.
- c) All gas connections should be made by an experienced person in compliance with the local, state, or national regulations in force.
- d) The refrigerator must stand level side to side and front to rear when the recreation vehicle or mobile home is level.
- e) A suitable 110 volt electric supply socket must be available (except /FG models).
- f) Electric installation must comply with, the National Electrical Code ANSI C1_t' 1978 in the U.S.A. and Standards CSA5'; Z240.6.1 or .2 in Canada if an external electrical source is utilized.

2. Installation

First study the detailed drawings in Fig. 1.

- a) The refrigerator is to be installed in a recess, constructed as in Fig. 1, from wood panels having a minimum thickness of 3/32" so that the top, bottom, and sides completely enclose the refrigerator except for a chimney, 23-3/4" wide and 6" deep, extending above the rear of the recess to the roof of the vehicle.
All joints in the recess, including the chimney, must be sealed with silicon or caulking compound so that no combustion products can seep into the living space of the vehicle.
Do not install the refrigerator directly on carpeting. Carpeting must be protected by a metal or wood panel beneath the appliance which extends at least the full width and depth of the appliance.
- b) The roof and lower access vents illustrated in Fig. 1, and supplied with the refrigerator, must be fitted as shown and must not be modified. Under no circumstances may air for combustion be drawn from the living space of the vehicle.
The lower access vent is constructed so that it has two openings totaling two square inches at floor level of the recess to allow any heavier than air gases to escape to the outdoors.
- c) The gas line and electric supply leads must be so positioned that they will not be damaged when the refrigerator is slid into or out of the recess. The holes in the recess walls or floor for gas line and electric supply leads must be sealed with caulking compound or grommets.

d) The minimum clearances to combustibles are as follows:

Top 0" Side 0" Bottom 0" Back 6 ¼"

For servicing and proper operation the following clearances are required:

Top of condenser unit 12". Back of refrigerator cabinet 6".

Note: The cooling unit extends beyond the back of the refrigerator cabinet. Dimension (F) in Fig. 1, which is measured from the rear of the cabinet, makes allowance for this and will ensure proper installation.

See Fig. 1 and table of dimensions.

e) The refrigerator should be slid into the recess as far as it will go. The front of the refrigerator cabinet is fitted with a mounting frame and the rear faces of this mounting frame are fitted with a sealing strip which compresses against the recess surround when the frame screws are tightened down. The front, bottom facing of the refrigerator at floor level should be sealed with caulking compound.

f) The refrigerator must be secured to floor at the rear with screws or bolts through the mounting flange provided. Do not insert nails, screws, etc., through adjacent cabinets into the refrigerator at any point as these may render the refrigerator useless.

This installation will ensure that an adequate supply of air for combustion and ventilation will enter through the lower access vent and that all products of combustion and warm air will be expelled through the roof vent, and as the refrigerator is sealed in its recess, no combustion gases will reach the living space.

3. Gas Installation

a) Check that the suspension wire, gas baffle, and flue are correctly assembled.

b) Check that the burner is arranged at the correct height. The top of the burner must be 0.460"/0.360" below the bottom of the funnel base.

c) The inlet tube must be fitted with connector to suit 7/16" flared tubing. If a flexible connection is employed, only tubing of the approved type must be used.

d) The gas inlet tube should be connected at the rear to the connection provided on the manual shut-off valve.

e) Once the gas supply has been connected all joints must be tested for leaks using a soap solution. If bubbles form tighten the connection and test again.

f) Check the gas pressure at the test point. Pressure should be 10" to 12" WG.

g) After placing the refrigerator in operation the gas safety shut off device must be tested as follows:

1. Light the burner.

Leave burner alight for 15 minutes minimum.

3. Gain access to burner from rear through Lower Access Vent.

4. Blowout the flame.

5. Wait 3 minutes minimum.

6. Try to relight burner with a match.

If it does not relight the gas safety shut off device is operating.

If it does relight the gas safety shut off device should be examined or replaced and the test repeated.

h) The refrigerator must be disconnected from the gas supply piping system during any pressure testing of that system.

4. Electric Installation - 110 V

(except /FG models)

a) Check that the voltage supply corresponds with the supply voltage given on the data plate.

- b) The refrigerator must be electrically grounded in accordance with either the National Electrical Code in the U.S.A. ANSI/NFPA No 70-1981 or the Electrical Standard in Canada, when if an external alternating current electrical source is utilized.
- c) The refrigerator is equipped with a three prong (grounding) plug for your protection against shock hazards and should be plugged directly into a properly grounded three pronged receptacle.

Do not cut or remove the grounding prong from the plug.

5. Electric Installation - 12 V

(/3W models)

- a) The low volt, two conductor, supply lead must have adequate current carrying capacity for the amperage required. The minimum recommended gauge of the supply lead from the battery to the refrigerator is 12 AWG.
- b) The low volt supply lead should be fitted with push-on terminals suitable for the terminal bushing fitted on the refrigerator.
- c) A fuse should be fitted in the supply line from the battery to the refrigerator. The maximum size fuse which may be fitted is 20 amp.
- d) Connect the supply lead to the 12 V terminals.

6. Removing the Refrigerator for Maintenance and Service

- a) Turn off gas supply at main valve on tank.
- b) Disconnect electric supply leads (if fitted).
- c) Disconnect the gas supply by loosening the connector on the downstream or right side of the manual shut-off valve so that the shut-off valve remains connected to the supply line.
- d) Remove the two screws connecting the shut-off valve to the rear of the cabinet. This will ensure that the gas supply line remains closed when the refrigerator is removed.
- e) Remove the hold-down screws in the rear mounting flange.
- f) Remove the front frame screws.
- g) The refrigerator can now be slid out of the recess.

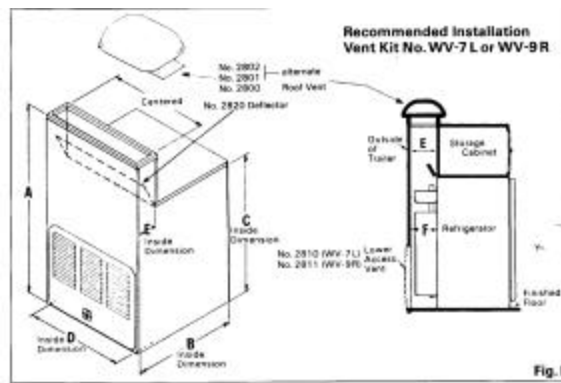
Before replacing the refrigerator in the recess inspect the sealing strips on the mounting frame. Damaged strips should be replaced. To reinstall the refrigerator proceed in reverse order to the above. Do not forget to recaulk the front, bottom facing at floor level to complete the seal. This will ensure that the original integrity of the installation is restored.

The opening for heavier than air gases is incorporated in the lower access vent frame. The bottom of the frame must be at the floor level on which the refrigerator stands.

7. Certified Vent Kit Components

This kit must be installed and used without modification

Use for Vent Kit	Part No	Part	Cut out Size Inr
WV-7L and WV-9R	2800	Roof Vent	7 1/2 x 17
	2801	Alternate Roof Vent	5 x 23 1/2
	2802	Alternate Roof Vent	5 x 20 1/2
	2820	Deflector	-
WV-7L	2810	Lower Access Vent for left hand side mounting	
WV-9R	2811	Lower Access Vent for right hand side mounting	



Model No.	A Min	A Max	B	C	D	E	F
1521	48"	83 1/2"	24 1/2"	34 1/2"	23 1/2"	6"	8 1/2"
2321	66"	83 1/2"	24 1/2"	54 1/2"	23 1/2"	6"	8 1/2"